

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
29 December 2004 (29.12.2004)

PCT

(10) International Publication Number
WO 2004/113371 A2

- (51) International Patent Classification⁷: **C07K 14/195**
- (21) International Application Number:
PCT/IB2004/002351
- (22) International Filing Date: 25 June 2004 (25.06.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
0315022.4 26 June 2003 (26.06.2003) GB
- (71) Applicant (for all designated States except US): **CHIRON SRL** [IT/IT]; Via Fiorentina 1, I-53100 Siena (IT).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **MASIGNANI, Vega** [IT/IT]; Chiron Srl, Via Fiorentina 1, I-53100 Siena (IT). **ARICO, Maria, Beatrice** [IT/IT]; Chiron Srl, Via Fiorentina 1, I-53100 Siena (IT).
- (74) Agents: **MARSHALL, Cameron, John et al.**; Carpmaels & Ransford, 43-45 Bloomsbury Square, London WC1A 2RA (GB).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**
— without international search report and to be republished upon receipt of that report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: VIRULENCE-ASSOCIATED ADHESINS

(57) Abstract: Virulence-associated antigens involved in adhesion have been identified in several organisms: Haemophilus influenzae biogroup aegyptius; Escherichia coli KI; EHEC E.coli; Actinobacillus actinomycetemcomitans; Haemophilus somnus; Haemophilus ducreyi; EPEC E. coli; EA EC E. coli; uropathogenic E.coli; Shigella flexneri; Brucella melitensis; Brucella suis; Ralstonia solanacearum; Sinorhizobium meliloti; Bradorhizobium japonicum; and Burkholderia fungorum. Although the degree of sequence identity between the adhesins is low, they share a common arrangement of domains from N-terminus to C-terminus, namely: a leader peptide; a globular head; a coiled-coil region; and a transmembrane anchor region.

WO 2004/113371 A2